

ISSCT ENGINEERING WORKSHOP

BERLIN, GERMANY

7 - 11 October, 2002

"Energy Management in Raw Cane Sugar Factories"

📄 Programme

📄 Report

📄 Abstracts

This workshop was hosted by the German ISSCT Regional Group and held at the Technical University of Berlin. It was attended by delegates from 12 countries with 43 from outside Germany and 26 from Germany. Altogether 68 presentations had been made on subjects related to energy management in raw cane sugar factories.

Workshop objective

The aim of the workshop was to review and discuss all aspects of energy management in raw cane sugar factories with a view to identify areas where energy demand could be reduced in order to increase the electricity generation leading to maximum derived revenue from factory operation and where research thrusts would be of benefit.

Technical programme

The programme for the workshop consisted of three days of twelve technical sessions with two days of factory visits. The technical sessions were conducted under the headings of: Energy conservation from cane yard to extraction plant, in boiling house and in refineries, improvement of efficiency of boiler plant and turbo generator, improvement of calorific value of bagasse, the use of alternative boiler fuels. Two sessions were devoted to the efficient utilisation of steam as well as electrical power. Topics on new technologies/processes for energy economy and new equipment/control technology were also touched upon.

The workshop programme with titles and authors of the presentations is shown (attachment), the abstract of each presentation can be accessed (you already have them). An overall review of the salient points of all presentation was presented in the last session (attachment).

Closing session and future workshop

At the closing session, a representative from each country attending the workshop was asked to present the status of steam and power consumption in their country, the results was shown in Table (This is in the CD you have under Session L, I'll post it so that you know which one.). The discussion on the topics for future ISSCT Engineering workshops suggested interest on: various aspects of low cost maintenance and predictive maintenance, milling and diffusion extraction, and instrumentation and automation

Factory visits

The delegates visited two state-of-the-art beet sugar factories at Konnern and Klein Wanzleben. The former processed 1.5 million tonnes of beet annually and produced 230 000 tonnes of sugar, whereas the latter processed 1.12 million tonnes of beet and produced 173 000 tonnes of sugar.

Acknowledgement

The delegates expressed their sincere thanks to the Head of the Berlin Sugar Institute and his staff for the excellent organisation of the workshop, and to the Management and the personnel of the two sugar factories for their hospitality.

Lynne Wong
Chairperson
ISSCT Engineering Section